Sondipon Adhikari

List of Publications by Citations

411 papers	11,971 citations	60 h-index	85 g-index
456 ext. papers	13,540 ext. citations	3.6 avg, IF	7.25 L-index

#	Paper	IF	Citations
411	Effective elastic mechanical properties of single layer graphene sheets. *Nanotechnology*, **2009**, 20, 065709	3.4	383
410	Magnetopiezoelastic energy harvesting driven by random excitations. *Applied Physics Letters*, **2010**, 96, 214103	3.4	255
409	Piezoelectric energy harvesting from broadband random vibrations. *Smart Materials and Structures*, **2009**, 18, 115005	3.4	249
408	Non-linear piezoelectric vibration energy harvesting from a vertical cantilever beam with tip mass. *Journal of Intelligent Material Systems and Structures*, **2012**, 23, 1505-1521	2.3	239
407	Effective mechanical properties of hexagonal boron nitride nanosheets. *Nanotechnology*, **2011**, 22, 505702	3.4	188
406	Vibration of nonlocal Kelvin–Voigt viscoelastic damped Timoshenko beams. *International Journal of Engineering Science*, **2013**, 66-67, 1-13	5.7	163
405	IDENTIFICATION OF DAMPING: PART 1, VISCOUS DAMPING. *Journal of Sound and Vibration*, **2001**, 243, 43-61	3.9	161
404	Vibrating carbon nanotube based bio-sensors. *Physica E: Low-Dimensional Systems and Nanostructures*, **2009**, 42, 104-109	3	143
403	Vibration response of double-walled carbon nanotubes subjected to an externally applied longitudinal magnetic field: A nonlocal elasticity approach. *Journal of Sound and Vibration*, **2012**, 331, 5069-5086	3.9	123
402	Nonlocal transverse vibration of double-nanobeam-systems. *Journal of Applied Physics*, **2010**, 108, 083514	2.5	123
401	Damping modelling using generalized proportional damping. *Journal of Sound and Vibration*, **2006**, 293, 156-170	3.9	114
400	IDENTIFICATION OF DAMPING: PART 2, NON-VISCOUS DAMPING. *Journal of Sound and Vibration*, **2001**, 243, 63-88	3.9	106
399	Nonlocal effects in the longitudinal vibration of double-nanorod systems. *Physica E: Low-Dimensional Systems and Nanostructures*, **2010**, 43, 415-422	3	104
398	A molecular mechanics approach for the vibration of single-walled carbon nanotubes. *Computational Materials Science*, **2010**, 48, 730-735	3.2	101
397	Dynamic Analysis of Wind Turbine Towers on Flexible Foundations. *Shock and Vibration*, **2012**, 19, 37-56	1.1	99
396	Bridging Proper Orthogonal Decomposition methods and augmented Newton-Krylov algorithms: an adaptive model order reduction for highly nonlinear mechanical problems. *Computer Methods in Applied Mechanics and Engineering*, **2011**, 200, 850-866	5.7	99
395	Experimental validation of soil–structure interaction of offshore wind turbines. *Soil Dynamics and Earthquake Engineering*, **2011**, 31, 805-816	3.5	98

394	Eigenderivative analysis of asymmetric non-conservative systems. *International Journal for Numerical Methods in Engineering*, **2001**, 51, 709-733	2.4	98
393	Symmetric State-Space Method for a Class of Nonviscously Damped Systems. *AIAA Journal*, **2003**, 41, 951-956	2.1	97
392	In-plane magnetic field affected transverse vibration of embedded single-layer graphene sheets using equivalent nonlocal elasticity approach. *Composite Structures*, **2013**, 96, 57-63	5.3	96
391	The bending of single layer graphene sheets: the lattice versus continuum approach. *Nanotechnology*, **2010**, 21, 125702	3.4	96
390	Dynamics of Nonviscously Damped Linear Systems. *Journal of Engineering Mechanics - ASCE*, **2002**, 128, 328-339	2.4	96
389	Metamodel based high-fidelity stochastic analysis of composite laminates: A concise review with critical comparative assessment. *Composite Structures*, **2017**, 171, 227-250	5.3	91
388	The analysis of piezomagnetoelastic energy harvesters under broadband random excitations. *Journal of Applied Physics*, **2011**, 109, 074904	2.5	90
387	Rates of Change of Eigenvalues and Eigenvectors in Damped Dynamic System. *AIAA Journal*, **1999**, 37, 1452-1458	2.1	85
386	Nonlocal vibration of bonded double-nanoplate-systems. *Composites Part B: Engineering*, **2011**, 42, 1901-1911	10	84
385	A mechanical equivalence for Poisson's ratio and thickness of C-C bonds in single wall carbon nanotubes. *Journal Physics D: Applied Physics*, **2008**, 41, 085306	3	79
384	Vibrations of wind-turbines considering soil-structure interaction. *Wind and Structures, an International Journal*, **2011**, 14, 85-112		79
383	Dynamic characteristics of damped viscoelastic nonlocal Euler-Bernoulli beams. *European Journal of Mechanics, A/Solids*, **2013**, 42, 125-136	3.7	77
382	Sensor shape design for piezoelectric cantilever beams to harvest vibration energy. *Journal of Applied Physics*, **2010**, 108, 014901	2.5	76
381	Derivatives of Complex Eigenvectors Using Nelson's Method. *AIAA Journal*, **2000**, 38, 2355-2357	2.1	76
380	Nonlocal frequency analysis of nanoscale biosensors. *Sensors and Actuators A: Physical*, **2012**, 173, 41-48	3.9	75
379	Stochastic natural frequency analysis of damaged thin-walled laminated composite beams with uncertainty in micromechanical properties. *Composite Structures*, **2017**, 160, 312-334	5.3	74
378	Analysis of energy harvesters for highway bridges. *Journal of Intelligent Material Systems and Structures*, **2011**, 22, 1929-1938	2.3	74
377	Nonlocal vibration of carbon nanotubes with attached buckyballs at tip. *Mechanics Research Communications*, **2011**, 38, 62-67	2.2	73

376	Uncertain natural frequency analysis of composite plates including effect of noise 『A polynomial neural network approach. *Composite Structures*, **2016**, 143, 130-142	5.3	72
375	Vibration frequency of graphene based composites: A multiscale approach. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2012**, 177, 303-310	3.1	72
374	Nonlocal buckling of double-nanoplate-systems under biaxial compression. *Composites Part B: Engineering*, **2013**, 44, 84-94	10	72
373	A Critical Assessment of Kriging Model Variants for High-Fidelity Uncertainty Quantification in Dynamics of composite Shells. *Archives of Computational Methods in Engineering*, **2017**, 24, 495-518	7.8	69
372	A Galerkin-type state-space approach for transverse vibrations of slender double-beam systems with viscoelastic inner layer. *Journal of Sound and Vibration*, **2011**, 330, 6372-6386	3.9	69
371	Random matrix eigenvalue problems in structural dynamics. *International Journal for Numerical Methods in Engineering*, **2007**, 69, 562-591	2.4	68
370	Non-linear energy harvesting from coupled impacting beams. *International Journal of Mechanical Sciences*, **2015**, 96-97, 101-109	5.5	65
369	Effective in-plane elastic properties of auxetic honeycombs with spatial irregularity. *Mechanics of Materials*, **2016**, 95, 204-222	3.3	65
368	Energy Harvesting Dynamic Vibration Absorbers. *Journal of Applied Mechanics, Transactions ASME*, **2013**, 80,	2.7	64
367	Axial instability of double-nanobeam-systems. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2011**, 375, 601-608	2.3	64
366	Stochastic free vibration analyses of composite shallow doubly curved shells 『A Kriging model approach. *Composites Part B: Engineering*, **2015**, 70, 99-112	10	63
365	Effective in-plane elastic moduli of quasi-random spatially irregular hexagonal lattices. *International Journal of Engineering Science*, **2017**, 119, 142-179	5.7	63
364	The calibration of carbon nanotube based bionanosensors. *Journal of Applied Physics*, **2010**, 107, 124322	2.5	62
363	Free-Vibration Analysis of Sandwich Panels with Randomly Irregular Honeycomb Core. *Journal of Engineering Mechanics - ASCE*, **2016**, 142, 06016008	2.4	62
362	System reliability analysis of soil slopes with general slip surfaces using multivariate adaptive regression splines. *Computers and Geotechnics*, **2017**, 87, 212-228	4.4	61
361	Equivalent in-plane elastic properties of irregular honeycombs: An analytical approach. *International Journal of Solids and Structures*, **2016**, 91, 169-184	3.1	61
360	Nonlocal elasticity based vibration of initially pre-stressed coupled nanobeam systems. *European Journal of Mechanics, A/Solids*, **2012**, 34, 52-62	3.7	61
359	Transverse vibration of single-layer graphene sheets. *Journal Physics D: Applied Physics*, **2011**, 44, 205401	3	61

358	Piezoelectric energy harvesting with parametric uncertainty. *Smart Materials and Structures*, **2010**, 19, 105010	3.4	61
357	Torsional vibration of carbon nanotubeßuckyball systems based on nonlocal elasticity theory. *Physica E: Low-Dimensional Systems and Nanostructures*, **2011**, 43, 1276-1280	3	61
356	Optimal complex modes and an index of damping non-proportionality. *Mechanical Systems and Signal Processing*, **2004**, 18, 1-27	7.8	61
355	Stochastic mechanics of metamaterials. *Composite Structures*, **2017**, 162, 85-97	5.3	60
354	A piezoelectric device for impact energy harvesting. *Smart Materials and Structures*, **2011**, 20, 105008	3.4	60
353	Direct time-domain integration method for exponentially damped linear systems. *Computers and Structures*, **2004**, 82, 2453-2461	4.5	60
352	Dynamic analysis of framed structures with statistical uncertainties. *International Journal for Numerical Methods in Engineering*, **1999**, 44, 1157-1178	2.4	60
351	Graphene-based biosensor using transport properties. *Physical Review B*, **2011**, 83,	3.3	59
350	On quantifying the effect of noise in surrogate based stochastic free vibration analysis of laminated composite shallow shells. *Composite Structures*, **2016**, 140, 798-805	5.3	58
349	Nonlocal mass nanosensors based on vibrating monolayer graphene sheets. *Sensors and Actuators B: Chemical*, **2013**, 188, 1319-1327	8.5	58
348	A Galerkin method for distributed systems with non-local damping. *International Journal of Solids and Structures*, **2006**, 43, 3381-3400	3.1	58
347	Fuzzy uncertainty propagation in composites using GramSchmidt polynomial chaos expansion. *Applied Mathematical Modelling*, **2016**, 40, 4412-4428	4.5	57
346	Dynamic finite element analysis of axially vibrating nonlocal rods. *Finite Elements in Analysis and Design*, **2013**, 63, 42-50	2.2	57
345	Stochastic free vibration analysis of angle-ply composite plates A RS-HDMR approach. *Composite Structures*, **2015**, 122, 526-536	5.3	57
344	Mechanisms of nonlocal effect on the vibration of nanoplates. *Applied Physics Letters*, **2011**, 98, 153101	3.4	56
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338	The transverse elasticity of bilayer graphene. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2010**, 374, 2053-2057	2.3	50
337	Boron-Nitride Nanotubes as Zeptogram-Scale Bionanosensors: Theoretical Investigations. *IEEE Nanotechnology Magazine*, **2011**, 10, 659-667	2.6	49
336	Vibration analysis of beams with non-local foundations using the finite element method. *International Journal for Numerical Methods in Engineering*, **2007**, 71, 1365-1386	2.4	49
335	Zeptogram sensing from gigahertz vibration: Graphene based nanosensor. *Physica E: Low-Dimensional Systems and Nanostructures*, **2012**, 44, 1528-1534	3	48
334	Surface effect on the buckling of piezoelectric nanofilms. *Journal Physics D: Applied Physics*, **2012**, 45, 285301	3	48
333	Effect of cutout on stochastic natural frequency of composite curved panels. *Composites Part B: Engineering*, **2016**, 105, 188-202	10	48
332	Probabilistic characterisation for dynamics and stability of laminated soft core sandwich plates. *Journal of Sandwich Structures and Materials*, **2019**, 21, 366-397	2.1	46
331	Homogenization of porous piezoelectric materials. *International Journal of Solids and Structures*, **2017**, 113-114, 218-229	3.1	45
330	Pullout strength of graphene and carbon nanotube/epoxy composites. *Composites Part B: Engineering*, **2016**, 102, 1-8	10	45
329	Distributed parameter model updating using the Karhunen⬛oⱱe expansion. *Mechanical Systems and Signal Processing*, **2010**, 24, 326-339	7.8	45
328	Qualitative dynamic characteristics of a non-viscously damped oscillator. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2005**, 461, 2269-2288	2.4	45
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319	Exact closed-form solution for non-local vibration and biaxial buckling of bonded multi-nanoplate system. *Composites Part B: Engineering*, **2014**, 66, 328-339	10	43
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317	Eigenrelations for Nonviscously Damped Systems. *AIAA Journal*, **2001**, 39, 1624-1630	2.1	43
316	Frequency domain homogenization for the viscoelastic properties of spatially correlated quasi-periodic lattices. *International Journal of Mechanical Sciences*, **2019**, 150, 784-806	5.5	43
315	Nonlocal longitudinal vibration of viscoelastic coupled double-nanorod systems. *European Journal of Mechanics, A/Solids*, **2015**, 49, 183-196	3.7	42
314	Frequency domain analysis of nonlocal rods embedded in an elastic medium. *Physica E: Low-Dimensional Systems and Nanostructures*, **2014**, 59, 33-40	3	42
313	A spectral approach for fuzzy uncertainty propagation in finite element analysis. *Fuzzy Sets and Systems*, **2014**, 243, 1-24	3.7	42
312	Vibrational characteristics of bilayer graphene sheets. *Thin Solid Films*, **2011**, 519, 6026-6032	2.2	42
311	Mechanical properties of non-reconstructed defective single-wall carbon nanotubes. *Journal Physics D: Applied Physics*, **2009**, 42, 142002	3	42
310	Thermal uncertainty quantification in frequency responses of laminated composite plates. *Composites Part B: Engineering*, **2015**, 80, 186-197	10	41
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308	Optical properties of silicon doped ZnO. *Physica B: Condensed Matter*, **2010**, 405, 4763-4767	2.8	41
307	Non-local finite element analysis of damped beams. *International Journal of Solids and Structures*, **2007**, 44, 7564-7576	3.1	41
306	Stochastic natural frequency of composite conical shells. *Acta Mechanica*, **2015**, 226, 2537-2553	2.1	40
305	Probing the shear modulus of two-dimensional multiplanar nanostructures and heterostructures. *Nanoscale*, **2018**, 10, 5280-5294	7.7	40

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303	Bottom up surrogate based approach for stochastic frequency response analysis of laminated composite plates. *Composite Structures*, **2016**, 140, 712-727	5.3	40
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301	A polynomial chaos expansion based molecular dynamics study for probabilistic strength analysis of nano-twinned copper. *Materials Research Express*, **2016**, 3, 036501	1.7	39
300	Low frequency vibration of multiwall carbon nanotubes with heterogeneous boundaries. *Journal Physics D: Applied Physics*, **2010**, 43, 085405	3	39
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298	Doubly Spectral Stochastic Finite-Element Method for Linear Structural Dynamics. *Journal of Aerospace Engineering*, **2011**, 24, 264-276	1.4	38
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295	Iterative Methods for Eigenvalues of Viscoelastic Systems. *Journal of Vibration and Acoustics, Transactions of the ASME*, **2011**, 133,	1.6	37
294	Matrix Variate Distributions for Probabilistic Structural Dynamics. *AIAA Journal*, **2007**, 45, 1748-1762	2.1	37
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292	Dynamics of multiple viscoelastic carbon nanotube based nanocomposites with axial magnetic field. *Journal of Applied Physics*, **2014**, 115, 234303	2.5	36
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290	Transient Dynamics of Stochastically Parametered Beams. *Journal of Engineering Mechanics - ASCE*, **2000**, 126, 1131-1140	2.4	36
289	Modal Analysis of Linear Asymmetric Nonconservative Systems. *Journal of Engineering Mechanics - ASCE*, **1999**, 125, 1372-1379	2.4	36
288	A Response Surface Modelling Approach for Resonance Driven Reliability Based Optimization of Composite Shells. *Periodica Polytechnica: Civil Engineering*, **2016**, 60, 103-111	1.2	36
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